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ENGLISH PATENTS;

BEING A

REGISTER OF ALL THOSE GRANTED FOR INVENTIONS

IN THE

Arts, Manufactures, Chemistry, Agriculture, &c.

IN THE YEAR 1841:

WITH

A COPIOUS INDEX

BODLEIANA BIBLIOTHECA

TO WHICH IS APPENDED

AN ACCOUNT OF THE REGISTRATION OF DESIGNS NEW ACT FOR ARTICLES OF MANUFACTURE.

BY ANDREW PRITCHARD, M.R.I.,

HON. MEM. SOC. ARTS EDINBURGH; EDITOR OF "A LIST OF ALL THE PATENTS GRANTED DURING THE PRESENT CENTURY," &c.

58.

LONDON:

WHITTAKER AND CO., AVE MARIA LANE.

1842.

680.

TO BE CONTINUED ANNUALLY.

J. DARKIN, PRINTER, CLOUDESLEY STREET, ISLINGTON.

PREFACE.

In accordance with the announcement contained in the Preface to the "*List of all the Patents granted during the present Century,*" this, the first Annual List since the publication of that work, is respectfully submitted to the public.

On the value of a correct list of Patented Inventions, and a ready means of reference to them, few remarks need be offered. To the manufacturer its importance must be at once apparent, as it embraces improvements in nearly every branch of art and science, and enables him to ascertain what processes and articles he is restricted from using or making, and the period when they become public property. To inventors, many are the uses for which a List of this kind is available; besides offering them a ready means of ascertaining whether others have directed their attention to the same

subjects, it enables them, if such be the case, to determine whether the inventions are similar, or what parts are claimed by former patentees, and whether they can secure their invention to themselves, without infringement of an existing patent.

In the present List I have introduced several improvements in the arrangement (some of which were incompatible with the plan of the former List), while the Index of subjects will render easy a reference to the List itself.

Another point on which I have bestowed great care is the accuracy of the *titles* of the Patents. The difficulty of procuring correct copies of the titles may at the first glance be deemed small; but such is not in reality the case; for after my own manuscript had, in the first instance, been completed, I found, on a careful examination of the monthly Lists of Patents for the year 1841, as published by two respectable journals, no less than *sixty-eight* errors or discrepancies; and in one of these journals no less than *eight* patents, and in the other *two*, were omitted. Having made this remark, I think it due to the editors of journals to state that the fault does not in all cases rest exclusively with them; for in offices in which accuracy should be especially studied (*the entire* value of a patented invention de-

pending upon its agreement with its title), errors of a serious kind have sometimes occurred. In corroboration of this remark, I will only refer to a recent case, in which, in the title, the word "*covering*" was changed to "*recovering*"—a difference which led to results of no small moment to the patentee. I think it proper, therefore, to say, that I have examined this List with the greatest care, compared it with the best authorities, and feel assured that if any errors exist, they are few in number and trifling in importance.

It is my intention to continue the List annually; and I shall endeavour to publish it early in the year. I hope also to be able to append to each List some useful information on subjects relating to patents, or matters connected therewith. In the present, I have given a copy of Letters Patent, as now granted for England, and also an abstract of the new Act for securing to proprietors the sole use of designs for articles of manufacture for a limited period, together with a notice respecting its operation.

Office for Patents, 162, *Fleet Street, London;*
November 1*st*, 1842.

Mr. PRITCHARD, having been for several years engaged as Patent Agent, offers his assistance to Patentees, Inventors, and others, in the various branches connected with the Patent Business, especially either of the following:—

In giving opinions on cases of Infringement.
In ascertaining the novelty of Inventions.
In fixing the Titles of Patents.
In procuring Patents for England, Scotland, Ireland, France, Belgium, Holland, the German States, or America.
In making Mechanical Drawings.
In preparing Specifications for Patents.

Caveats entered.
New Designs for Articles of Manufacture registered.

London, 162, Fleet Street.

ENGLISH PATENTS.

1841.

[*For a Chronological List of the Patents granted for the* IMPORTATION *of Inventions from Foreign Countries, and not to the Inventors themselves, see page* 63.]

GRANTS FOR 14 YEARS FROM THE DATE OF SEALING.

1. AINGWORTH, Benjamin, Birmingham, Gent., for improvements in the manufacture of buttons. —October 7.

2. AINSLIE, John, Redheugh, North Britain, farmer, for a new and improved mode of making or moulding tiles, bricks, retorts, and such like work, from clay and other plastic substances. —May 22.

method of making paint from
before used for that purpose.—

Claudius, Broad-street, Golden-
tist, for improvements in apparatus
candles in candlesticks. —

Edward, Fulham, engineer,
atus for what is commonly called
the line" on railways.—De-

heltenham, Gent., for improve-
ting.—January 23.

am, Gloucester-street, Queen-
an, for improvements in appa-
nd the human chest.—Decem-

er. *See* Nos. 20, 120, 371.

John, Manchester, engraver, for certain
ts in machinery for the purpose
r etching designs or patterns on
urfaces.—January 19.

Joseph, Regent-street, Lambeth, artist,
improvements in measuring aëriform or
substances.—April 20.

ard, Wigan, Lancashire, engineer
n improvements in machinery

3. ALBERT, Dominic Frick, Cadishead, Manchester, Doctor of Laws, for an improved or new combination of materials and processes in the manufacture of fuel.—February 1.

4. ALLARTON, George, West Bromwich, Staffordshire, surgeon, for certain improvements in the method of balling and blooming iron.—November 11.

5. ANDERSON, James, Newcastle-upon-Tyne, engineer, for improvements in windlasses.—April 5.

6. ANDREWS, William Ward, Wolverhampton, ironmonger, for certain improved methods of raising and lowering windows and window-blinds, and opening and shutting doors; which are also applicable to the raising and lowering of maps, curtains, and other articles.—February 2.

7. ANDREWS, William Ward, Wolverhampton, ironmonger, for an improved coffee-pot.—July 21.

8. APSEY, Joseph, Cornwall-road, Lambeth, engineer, for improvements in the construction of flues for steam-boilers and other furnaces.—April 6.

ARCHBOLD, Thomas and James. *See* No. 235.

9. ARMES, John, Plymouth, painter, for a new and

improved method of making paint from materials not before used for that purpose.—January 16.

10. Ash, George Claudius, Broad-street, Golden-square, dentist, for improvements in apparatus for fastening candles in candlesticks.—June 12.

11. Austin, Charles Edward, Fulham, engineer, for an apparatus for what is commonly called "changing the line" on railways.—December 16.

12. Baggs, Isham, Cheltenham, Gent., for improvements in printing.—January 23.

13. Baillieu, William, Gloucester-street, Queen-square, musician, for improvements in apparatus to expand the human chest.—December 23.

Bain, Alexander. *See* Nos. 20, 120, 371.

14. Barber, John, Manchester, engraver, for certain improvements in machinery for the purpose of tracing or etching designs or patterns on cylindrical surfaces.—January 19.

15. Barker, Joseph, Regent-street, Lambeth, artist, for improvements in measuring aëriform or fluid substances.—April 20.

16. Barnes, Richard, Wigan, Lancashire, engineer, for certain improvements in machinery or

apparatus for raising or drawing water or other fluids.—March 22.

17. Barratt, Oglethorpe Wakelin, Birmingham, metal-gilder, for certain improvements in the precipitation or deposition of metals.—September 8.

18. Barre, Mathias Nicholas La Roche, St. Martin's-lane, Middlesex, manufacturer of cotton, for an improvement in the manufacture of a fabric applicable to sails and other purposes.—October 7.

19. Barsham, William James, Bow, Gent., for improvements in fastening buttons and other articles on to wearing apparel and other descriptions of goods or manufactures.—April 5.

20. Barwise, John, St. Martin's-lane, chronometer-maker, and Alexander Bain, 35, Wigmore-street, Cavendish-square, machinist, for their invention of improvements in the application of moving power to clocks and timepieces.—January 11.

21. Beale, Benjamin, East Greenwich, engineer, for certain improvements in engines, to be worked by steam, water, gas, or vapours.—July 13.

22. Bedells, Caleb, Leicester, manufacturer, Christopher Nickels, York-road, Lambeth, Gent., and Archibald Turner, foreman to the said

Caleb Bedells, for improvements in the manufacture of braids and plaits: (partly a communication.)—January 19.

23. BEILBY, Jonathan, York, brewer, for improvements in brewing.—April 5.

24. BENTALL, Edward Hammond, Heybridge, Essex, iron-founder, for certain improvements in ploughs.—June 10.

25. BENTHAM, Joseph, Bradford, weaver, for improvements in weaving.—April 22.

26. BERGER, William Thomas, Upper Homerton, Gent., for improvements in the manufacture of starch.—June 28.

27. BESSEMER, Henry, Percival-street, Clerkenwell, for a new mode of checking the speed of or stopping railroad-carriages under certain circumstances.—January 6.

28. BESSEMER, Henry, Baxter House, St. Pancras, engineer, and Charles Louis SCHONBERG, Sidmouth-place, Gray's-Inn-road, artist, for improvements in the manufacture of certain glass.—September 23.

29. BETTRIDGE, Joseph, Birmingham, wood-turner, for an improved method of manufacturing *papier maché*, pearl, china, ivory, horn, wood, and composition, into pillars and stands for table- and other lamps, and other articles of domestic furniture.—May 27.

30. Biggs, Thomas, Leicester, merchant, for improvements in securing hats, caps, and bonnets, from being lost by the effects of wind or other causes.—October 7.

31. Bodmer, John George, Manchester, engineer, for certain improvements in the construction of screwing-stocks, taps, and dies, and certain other tools, or apparatus, or machinery for cutting and working in metals.—April 3.

32. Bodmer, John George, Manchester, engineer, for certain improvements in machinery for propelling vessels on water; parts of which improvements apply also to steam-engines to be employed on land.—June 10.

33. Booker, Thomas William, Melin Griffiths Works, near Cardiff, ironmaster, for improvements in the manufacture of iron.—February 22.

34. Boot, John, Quorndon, Leicestershire, lace-glove-manufacturer, and John King, Heanor, lace-maker, for certain improvements in machinery or apparatus for manufacturing or producing figured or ornamented fabrics in warp- and bobbin-net-lace-machines.—September 4.

35. Booth, Henry, Liverpool, Esq., for improvements in the method of propelling vessels through water.—December 16.

Booth, Hugh. *See* No. 361.

36. Booth, John Peter, Hatton-garden, feather-merchant, for certain improvements in the manufacture of a substance, or compound fabric, which will be applicable to the making of quilts, coverlets, and wadding, for purposes of clothing or furniture.—November 11.

37. Bould, John, Overden, Halifax, cotton-spinner, for an improvement or improvements in condensing steam-engines.—December 16.

38. Boussois, Edward Joseph François Duclos de, Clynewood Metallurgical Works, Swansea, engineer, for improvements in the manufacture of copper.—November 11.

39. Brewer, Henry Newson, Jamaica-row, Bermondsey, mast- and block-maker, for an improvement or improvements in wooden blocks for ships' rigging, tackles, and other purposes where pulleys are used.—March 3.

40. Brown, Frederick, Luton, Bedfordshire, ironmonger, for improvements in stoves or fire-places.—September 24.

41. Brown, Henry, Codnor-park Iron-works, Derbyshire, iron-manufacturer, for improvements in the manufacture of steel.—April 22.

42. Brown, Sir Samuel, Knt., Netherbyer's House, Ayton, Berwick, for improvements in the means of drawing or moving carriages and other machines along inclined planes, railways, and other roads, and for drawing or propelling

vessels in canals, rivers, and other navigable waters.—June 19.

43. Brown, Samuel, Gravel-lane, Southwark, engineer, for improvements in the manufacture of metallic casks or vessels, and in tinning or zinking metal for such and other purposes.—August 11.

Brown, William. *See* No. 279.

44. Brunton, William, Neath, Glamorganshire, engineer, for an improved method or means of dressing ores, and separating metals or minerals from other substances.—November 2.

45. Bryant, Zachariah, Nottingham, machinist, for an improved method of manufacturing cloth and other fabrics from woollen, cotton, flax, silk, and other substances.—April 3.

46. Bucknell, William, Westminster, Gent., for improvements in applying heat for the purpose of hatching eggs; which improvements are also applicable to other useful purposes where heat is required.—March 22.

47. Buckwell, William, Trinity-street, Borough, civil-engineer, for improvements in scaffolding or framework for building purposes.—December 16.

Bullough, James. *See* No. 190.

48. Bunnett, Joseph, Deptford, engineer, for certain

improvements in locomotive engines and carriages.—February 3.

49. Burge, William, Bristol, sign-painter, for improvements in propelling vessels.—December 21.

50. Burnell, John, the younger, Whitechapel, manufacturer, for improvements in the manufacture of leaves or sheets of horn, commonly called lantern-leaves, and in the construction of horn lanterns.—November 9.

51. Burnett, William Hickling, Ravensbourne-wood Mills, Deptford, Gent., for improvements in machinery for cutting wood and in apparatus connected therewith; part of which may be applied to other purposes.—September 9.

52. Bush, William, Deptford, engineer, for improvements in the means of and in the apparatus for building and working under water.—September 21.

53. Bynner, Jeremiah, Birmingham, lamp-maker, for improvements in gas-burners.—November 2.

54. Calcina, Comte Melano de, Nassau-street, Soho, for improvements in paving or covering roads and other ways or surfaces.—September 21.

55. Cameron, Charles, late Captain in Her Majesty's

18th Regiment of Foot, and now residing at Mount Vernon, in Edinburgh, for certain improvements in engines to be actuated by steam or other elastic fluid.—January 14.

56. CAMPBELL, John George Truscott, Lambeth-hill, Upper Thames-street, grocer, for improvements in propelling vessels.—June 19.

CAPELAIN, Philip Le. *See* No. 256.

57. CARD, Nathaniel, Manchester, candlewick-maker, for certain improvements in the manufacture of wicks for candles, lamps, and other similar purposes, and in the apparatus connected therewith.—September 8.

58. CARR, John, North Shields, earthenware-manufacturer, and Aaron RYLES, of the same place, agent, for an improved mode of operating in certain processes for ornamenting glass. —November 9.

59. CARR, John, Jun., Paddington, engineer, for improvements in apparatus for retarding and stopping railway-carriages.—May 20.

60. CARRON, William, Birmingham, lathe-maker, for improvements in the construction of clogs and pattens.—December 21.

61. CARTWRIGHT, John, Loughborough, manufacturer, Henry WARNER, of the same place, manufacturer, and Joseph HAYWOOD, of the same place, framesmith, for improvements

upon machinery commonly called stocking-frames or framework-knitting machinery.—February 4.

62. CHAMBERS, Thomas, and Francis Mark FRANKLIN, Lawrence-lane, London, button-warehouseman, and Charles ROWLEY, Birmingham, button-manufacturer, for improvements in the manufacture of buttons and fastenings for wearing apparel.—August 27.

63. CHATER, John, Nottingham, machine-maker, and Richard GRAY, of the same place, lace-manufacturer, for improvements in machinery for the purpose of making lace and other fabrics, traversed, looped, or woven.—June 26.

64. CHESTERMAN, Wm., Burford, Oxfordshire, Gent., for improvements in filtering liquids.—June 23.

65. CHURCH, William, Birmingham, civil-engineer, and Jonathan HARLOW, of the same place, manufacturer, for certain improvements in the mode of manufacturing metallic tubes, and in the mode of joining them, or other tubes, or pieces, for various useful purposes.—December 16.

66. CLARK, Thomas, Professor of Chemistry in Marischal College, Aberdeen, for a new mode of rendering certain waters (the water of the Thames being among the number) less impure and less hard for the supply and use of manufactories, villages, towns, and cities.—March 8.

67. CLAUDET, Antoine Jean François, High Holborn, glass-merchant, for certain improvements in the process or means of, and apparatus for, obtaining images or representations of nature or art.—December 18.

68. COLMAN, James, Stoke Holy Cross, Norfolk, starch-manufacturer, for improvements in the manufacture of starch.—December 9.

69. COOK, Robert, and Andrew CUNNINGHAM, Johnstone, near Glasgow, engineers, for improvements in the manufacture of bricks.—March 22.

70. COOPER, William, Layham, Suffolk, ironfounder, for an improved method of constructing threshing-machines and other agricultural instruments.—January 21.

71. COUPLAND, Michael, Pond Yard, Southwark, millwright and engineer, for improvements in furnaces.—September 4.

72. COX, John, Gougie Mills, Edinburgh, tanner, for improvements in apparatus for assisting or enabling persons to swim, or float, and progress in water.—January 19.

73. COX, John, Gougie Mills, Edinburgh, tanner and glue-maker, for certain improved processes of tanning.—December 21.

74. CRAIG, William, engineer, Robert JARVIE, rope-maker, and James JARVIE, rope-maker, all of

Glasgow, for certain improvements in machinery for preparing and spinning hemp, flax, wool, and other fibrous materials.—August 11.

CROSHER, William. *See* No. 191.

75. CROSSKILL, William, Beverley, ironfounder and engineer, for improvements in machinery for rolling land, and in machinery to be used in the culture of grass land.—September 8.

CUNNINGHAM, Andrew. *See* No. 69.

76. CURTIS, Charles Berwick, Acton, Esq., for a method or methods to be used on railways for the purpose of obviating collisions between successive trains.—January 19.

77. CUTLER, Job, Ladypool-lane, Birmingham, Gent., for improvements in the construction of the tubular flues of steam-boilers.—November 6.

78. DAMPIER, Christopher Edward, Ware, Gent., for improvements in weighing-machines.—April 15.

79. DANIELL, Joseph Clisild, Tiverton Mills, Bath, for improvements in the manufacture of manure, or a composition to be used on land as a manure.—October 7.

DARKER, William Hill, Jun. *See* Nos. 80, 81.

80. DARKER, William Hill, Sen., and William Hill DARKER, Jun., both of Lambeth, engineers,

and William Wood, of Wilton, carpet-manufacturer, for certain improvements in looms for weaving.—January 21.

81. Darker, William Hill, Sen., and William Hill Darker, Jun., both of Lambeth, engineers, and William Wood, of Wilton, carpet-manufacturer, for certain improvements in looms for weaving.—September 4.

82. Dashwood, Jonathan Guy, Ryde, Isle of Wight, plumber, for improvements in pumps.—February 22.

83. Dashwood, Jonathan Guy, Ryde, Isle of Wight, plumber, for improvements in the construction of cocks and taps.—December 9.

84. Davies, Henry, Birmingham, engineer, for certain improved tools or apparatus for cutting or shaping metals and other substances.—October 21.

85. Davies, Henry, Birmingham, engineer, for certain improved machinery, suitable for applying power to communicate locomotion to bodies requiring to be moved on land or water.—November 9.

86. Davis, Isaac, New Bond-street, optician, for improvements in the manufacture of sealing-wax, which compounds are applicable to other useful purposes.—November 11.

87. Davis, Marcus, New Bond-street, optician, for

improvements in the means of ascertaining the distances vehicles travel.—October 7.

88. DAY, George Thomas, Upper Belgrave-place, Pimlico, Gent., for an improved apparatus for creating draught, applicable to chimneys and other purposes.—June 23.

89. DAY, John Rock, Great Queen-street, Lincoln's-Inn-fields, saddlers' ironmonger, for certain improvements in the construction of collars for horses and other draught animals.—January 6.

90. DEAN, John, Dover, chemist, for improvements in preparing skins and other animal substances for obtaining gelatine, size, and glue, and in preparing skins for tanning.—February 23.

DE BOUSSOIS, E. J. François Duclos. *See* No. 38.

DE CALCINA, Comte Melano. *See* No. 54.

DELL, Edward. *See* No. 139.

DE MOLEYNS, Frederick. *See* No. 228.

DE NORMANDY, Alphonse Réné Le Mire. *See* 238.

DE SCHELESTADT, Edward Loos. *See* No. 289.

91. DEVERILL, Hooton, Nottingham, lace-manufacturer, for certain improvements in machinery for making and ornamenting lace, commonly called bobbin-net-lace.—May 10.

92. Ditchburn, Thomas Joseph, Orchard House, Blackwall, ship-builder, for certain improvements in ship-building; some or all of which are applicable to steam-boats, and boats and vessels of all descriptions.—March 8.

93. Dockree, John, Galway-street, St. Luke's, gas-fitter, for an improvement or improvements on gas-burners.—March 15.

94. Dodds, Isaac, Sheffield, engineer, for certain improvements in the modes or methods of supplying gas for the purposes of illuminating towns and other places. — November 13.

95. Drake, John Collard, Elm-tree-road, St. John's Wood, land-surveyor, for improvements in scales used in drawing and laying down plans. —February 18.

96. Drew, Joseph, the younger, St. Peter's Port, for an improved method of cutting and rolling lozenges, and also of cutting gun-wads, wafers, and all other similar substances, by means of a certain machine designed by him, and constructed by divers metals and woods. —September 6.

Duclos de Boussois, Edward Joseph François. *See* No. 38.

97. Duncan, John, Great George-street, Westminster, Gent., for improvements in machinery for driving piles.—September 21.

DUYCK, Jacque Edward. *See* No. 232.

98. DYER, Charles Bunt, Pary's Mine, Anglesea, mine-agent, for an improved method of obtaining paints or pigments by the combination of mineral solutions with other substances.—March 16.

99. EDWARDS, John, Cow-Cross-street, Gent., for an improved strap or band for driving machinery, and for other purposes.—November 9.

100. EDWARDS, John, Shoreditch, warehouseman, for improvements in giving signals on railways.—December 11.

101. ELAIN, Alfred, Huddersfield, surgical-instrument-maker, for improvements in apparatus or instruments for the relief and cure of Procedencia and Prolapsus Uteri. — September 20.

ELLIS, Robert. *See* No. 267.

102. ELSE, Richard, Gray's Inn, Esq., for certain improvements in machinery or apparatus for forcing and raising water and other fluids.—September 8.

103. ENGLAND, George, Westbury, Wiltshire, clothier, for improvements in machinery for weaving woollen and other fabrics, and for twisting, spooling, and warping woollens; also for improvements in the manufacture of woollen doe-skins.—March 2.

104. Evans, George, Dorset-place, Marylebone, for an improvement or improvements upon trusses for the relief of hernia.—March 29.

105. Fairbairn, Peter, Leeds, engineer, and William Suthill, Newcastle-upon-Tyne, flax-spinner, for certain improvements in drawing flax, hemp, wool, silk, and other fibrous substances. — January 26.

106. Fairbairn, William, Millwall, Poplar, engineer, for certain improvements in the construction and arrangement of steam-engines.—September 8.

107. Fanshawe, Henry Richardson, the younger, Hatfield-street, Surrey, chemist, for improvements in curing hides and skins, and in tanning, washing, and cleaning hides, skins, and other matters.—June 10.

108. Fanshawe, John Americus, Hatfield-street, Christ Church, Gent., for an improved manufacture of waterproof fabric, applicable to the purposes of covering and packing bodies, buildings, and goods exposed to water and damp.—December 16.

109. Field, Joshua, Lambeth, engineer, for an improved mode of effecting the operation of connecting and disconnecting from steam-engines the paddle-wheels used for steam navigation. —March 22.

110. Finch, Edward, Liverpool, iron-master, for

improvements in propelling vessels.—March 25.

111. FOARD, Edward, Queen's Head-lane, Islington, machinist, for an improved method or improved methods of supplying fuel to the fireplaces or grates of steam-engine boilers, brewers' coppers, and other furnaces, as well also to the fireplaces employed in domestic purposes, and generally to the supplying of fuel to furnaces or fireplaces, in such a manner as to consume the smoke generally produced in such furnaces or fireplaces.—January 16.

112. FORSTER, William Charlton, Bartholomew-close, Gent., for a material or compound of material not hitherto so used, for preventing damp rising in walls, and for freeing walls from damp; which material or compound of material can be applied to other purposes.—September 20.

113. FOURMENT, Adolphe, Museum-street, engineer, for improvements in castors for cabinet furniture, and other purposes.—December 21.

FRANKLIN, Francis Mark. *See* No. 62.

114. FULLER, Thomas, Bath, coachmaker, for certain improvements in retarding the progress of carriages under certain circumstances.—July 7.

115. FULLER, Thomas, Salford, machine-maker, for certain improvements in machinery or apparatus for combing or preparing wool or other

fibrous substances: (partly a communication.) —February 8.

116. FURNIVAL, James, Warrington, currier, for an expeditious mode of unhairing, mastering, and tanning various descriptions of hides and skins.—March 29.

117. FURNIVAL, John Bradford, Street Ashton, farmer, for improvements in evaporating fluids applicable to the manufacture of salt, and to other purposes where evaporation of fluids is required.—October 20.

118. GARNETT, John, Liverpool, merchant, and Joseph WILLIAMS, Liverpool, manufacturing chemist, for an improved method of manufacturing salt from brine.—November 9.

119. GARNETT, Joseph, Haslingden, dyer, and John MASON, Rochdale, machine-maker, for certain improvements in machinery or apparatus employed in the manufacture of yarns and cloth; and are also in possession of certain improvements applicable to the same: (being partly a communication.)—September 8.

120. GAUCI, Joseph, North-crescent, Bedford-square, artist, and Alexander BAIN, Wigmore-street, Cavendish-square, machinist, for improvements in inkstands and inkholders.—June 21.

121. GIBBS, Joseph, the Oval, Kennington, civil-engineer, for a new combination of materials for making bricks, tiles, pottery, and other

useful articles, and a machine or machinery for making the same, and also a new mode or process of burning the same; which machine or machinery and mode or process of burning are also applicable to the making and burning of other descriptions of bricks, tiles, and pottery.—April 29.

122. GIBBS, Joseph, the Oval, Kennington, civil-engineer, for certain improvements in roads and railways, and in the means of propelling carriages thereon.—June 5.

123. GOLDEN, William, Huddersfield, gun-maker, and John HANSON, Huddersfield, lead-pipe-manufacturer, for certain improvements in firearms, and in the bullets or other projectiles to be used therewith.—November 2.

124. GOLDNER, Stephen, West-street, Finsbury-circus, merchant, for improvements in preserving animal and vegetable substances and liquids.—March 8.

125. GOLIGHTLY, Charles, Gravel-lane, Southwark, Gent., for a new apparatus for obtaining motive power.—January 4.

126. GOODACRE, Robert, Ullesthorpe, Leicestershire, for an improved mode of weighing bodies raised by cranes or other elevating-machines. —March 22.

127. GOODWIN, John, Cumberland-street, Hackney-road, pianoforte-maker, for an improved con-

struction of pianofortes of certain descriptions.—June 23.

128. GORE, Thomas, Manchester, machine-maker, for certain improvements in machinery or apparatus for roving, spinning, and doubling cotton, silk, wool, and other fibrous materials. —March 30.

129. GRAFTON, John, Cambridge, civil-engineer, for an improved method of manufacturing gas. —September 4.

130. GRAHAM, Hugh, Bridport-place, Hoxton, artisan, for an improved manufacture of that kind of carpeting usually denominated Kidderminster carpeting.—May 6.

131. GRANT, Joseph Cooke, Stamford, ironmonger and agricultural implement maker, for improvements in horse-rakes and hoes.—September 8.

GRAY, Richard. *See* No. 63.

132. GREEN, Charles, Birmingham, gold-plater, for improvements in the manufacture of brass and copper tubes.—February 8.

GREEN, William. *See* No. 133.

133. GREGORY, James, coal-master, and William GREEN, tinner, both of West Bromwich, for certain improvements in the manufacture of iron and steel.—May 14.

134. GRIFFITHS, Thomas, Birmingham, tin-plate-worker, for certain improvements in such dish-covers as are made with iron covered with tin. —February 8.

135. GUNTER, Henry, Cullum-street, Fenchurch-street, merchant, for improvements in preserving animal and vegetable substances.—January 6.

136. GURNEY, Goldsworthy, Bude, Cornwall, Esq., for improvements in the production and diffusion of light.—March 25.

137. GURNEY, Richard, Trewinnion House, Cornwall, Esq., for a method of cutting wood and encrusting the same, in order to present a sure footing for horses, and other purposes.—November 25.

138. HAGEN, Thomas, Kensington, brewer, for an improved bagatelle-board.—July 7.

139. HALE, William, engineer, and Edward DELL, merchant, both of Woolwich, for improvements in cases and magazines for gunpowder. —August 13.

140. HALL, John, Breeze's-hill, Ratcliff-highway, sugar-refiner, for improvements in the construction of boilers for generating steam, and in the application of steam to mechanical power.—December 9.

141. HALL, Joseph, Cambridge, grocer and draper,

for a seed- and dust-disperser, which is particularly applicable to the freeing of corn and other plants from insects.—January 14.

142. HALL, Samuel, Basford, civil-engineer, for improvements in the combustion of fuel and smoke.—January 14.

143. HANCOCK, James, Sidney-square, Mile-end, civil-engineer, for certain improvements in the manufacture of locks, keys, latches, and other fastenings; part of which improvements are applicable to taps and cocks for drawing off fluids.—May 6.

144. HANCOCK, Walter, Stratford-le-bow, Essex, engineer, for certain improved means of preventing accidents on railways.—January 14.

145. HANCOCK, William, Jun., King-square, Middlesex, accountant, for an improved description of fabric suitable for making friction-gloves, horse-brushes, and other articles requiring rough surfaces.—February 3.

HANSON, John. *See* No. 123.

146. HARDMAN, Samuel, Farnworth, near Lancaster, spindle- and fly-maker, for certain improvements in machinery or apparatus for roving and slubbing cotton and other fibrous substances.—August 27.

HARLOW, Jonathan. *See* No. 65.

147. HARRIS, Thomas, Halesowen, Salop, horn-button-manufacturer, for improvements in the manufacture of what are called horn-buttons, and in the dies to be used in the making of such descriptions of buttons: (partly a communication.)—April 22.

148. HARRIS, Thomas, Shiffnal, Salop, veterinary-surgeon, for an improved horse-shoe.—January 11.

HARRISON, Henry. *See* No. 216.

149. HARRISON, William Currie, Newland-street, Pimlico, engineer, for an improved turning-table for railway purposes.—January 28.

150. HARWOOD, John, Great Portland-street, Gent., for an improved means of giving expansion to the chest.—October 7.

151. HAUGHTON, John, Liverpool, clerk, for improvements in the method of affixing certain labels.—June 19.

152. HAWIG, John, Strand, Gent., and Felix MOREAU, Holywell-street, Millbank, sculptor, for a new or improved process or processes for sculpturing, moulding, engraving, and polishing stone, metals, and other substances.—August 21.

153. HAWIG, John, Strand, Gent., and Felix MOREAU, Holywell-street, Millbank, sculptor, for a new or improved mode or process for cut-

ting or working cork for various purposes.—August 21.

HAYWOOD, Joseph. *See* No. 61.

HEELEY, Clement. *See* No. 316.

154. HEINDRYCKX, Floride, Fenchurch-street, engineer, for certain improvements in the construction and arrangement of fireplaces and furnaces, applicable to various useful purposes.—April 24.

155. HENDERSON, Robert, Birmingham, china-dealer and glass-stainer, for certain improvements in apparatus for heating and lighting apartments, and for other like purposes.—December 9.

156. HENRY, George Palmer, Peckham, chemist, for improvements in apparatus to be applied to the glass chimneys of gas-burners.—December 21.

157. HENSHALL, Edward, Huddersfield, carpet-manufacturer, for certain improvements in making, manufacturing, or producing carpets and hearth-rugs.—January 26.

158. HENSON, William Samuel, Allen-street, Lambeth, engineer, for certain improvements in steam-engines.—February 16.

159. HEURTELOUP, Charles Louis Stanislas, Baron, Albany-street, Regent's Park, for an improved manufacture of continuous priming for, and

improved mechanism for the application of the same to, certain descriptions of firearms. —September 9.

160. HICKES, George, Manchester, agent, for an improved machine for cleaning or freeing wool and other fibrous materials of burs and other extraneous substances.—August 21.

HICKINBOTHAM, David. *See* No. 264.

161. HILLS, Frank, and George HILLS, Deptford, manufacturing chemists, for certain improvements in the manufacture of sulphuric acid and carbonate of soda.—April 15.

HILLS, George. *See* No. 161.

162. HIRST, William, and Joseph WEIGHT, Leeds, clothiers, for certain improvements in the machinery for manufacturing woollen cloth and cloth made from wool and other materials. —October 7.

163. HOLCOMBE, Charles Thomas, Bankside, Southwark, iron-merchant, for certain lubricating or preserving matters for wheels and axles, applicable also to the bearings, journals, or other parts of machinery.—May 4.

164. HOLCROFT, Thomas, Nassau-street, Middlesex, Gent., for an improved portable safety-boat or pontoon.—October 28.

HOLDEN, Henry. *See* No. 240.

165. HOLT, Robert, Manchester, cotton-spinner, and Robinson JACKSON, Manchester, engineer, for certain improvements in machinery or apparatus for the production of rotary motion for obtaining mechanical power; which said improvements are also applicable for raising and impelling fluids.—November 2.

166. HOMPESCH, Theophile Antoine Willhelme, Count of, Mivart's Hotel, Brook-street, Middlesex, for improvements in obtaining oils and other products from bituminous matters, and in purifying and rectifying oils obtained from such matters.—September 4.

167. HOOD, Charles, Earl-street, Blackfriars, iron-merchant, for improvements in giving signals. —February 1.

HOWARD, Adam. *See* No. 243.

168. HUCKVALE, Thomas, Over Norton, Oxfordshire, farmer, for improvements in horse-hoes and in apparatus for treating and dressing turnips, to preserve them from insects, and promote their growth.—September 20.

169. HULME, George, St. John-street, Smithfield, cock-founder, for improvements in water-closets.—May 27.

170. HULME, Joseph, Manchester, engineer, for certain improvements in machinery or apparatus for grinding, sharpening, or setting the teeth of cards or other similar apparatus employed for carding or operating upon cotton,

wool, or other fibrous substances.—September 20.

171. HUTCHINSON, William, Sutton-on-Trent, Nottinghamshire, seed-crusher and oil-cake-manufacturer, for certain improvements in the manufacture of oil-cake or seed-cake.—April 5.

JACKSON, Robinson. *See* No. 165.

172. JAQUIN, Cornelius Alfred, Huggin-lane, for improvements in the manufacture of covered buttons, and in preparing of metal surfaces for such manufacture and other purposes.—January 26.

JARVIE, James. *See* No. 74.

JARVIE, Robert. *See* No. 74.

173. JEFFERIES, Humphrey, Birmingham, button-maker, for improvements in the manufacture of buttons.—April 22.

174. JEFFERY, Alfred, Prospect-place, New Hampton, Gent., for a new method of defending the sheathing of ships, and of protecting their sides and bottoms.—April 29.

175. JENKINS, William Walker, Greet, Worcestershire, manufacturer, for certain improvements in machines for the making of pins and sticking the same into paper.——August 27.

176. JENKINSON, William, Salford, machine-maker, for certain improvements in machinery for preparing and spinning flax, silk, and other fibrous substances.—March 31.

177. JENKYN, Richard, Hoyle, Cornwall, machinist, for certain improvements in valves for hydraulic machines.—January 26.

178. INGRAM, Thomas Wells, Birmingham, manufacturer, for improvements in shears and other apparatus for cutting, cropping, and shearing certain substances: (parts of which said invention being a communication from a foreigner residing abroad.)—October 7.

179. JOHNSON, James, Glasgow, Gent., for certain improvements in machinery for the manufacture of framework-knitting, commonly called hosiery, and for certain improvements in such framework-knitting, or hosiery.—March 8.

180. JOHNSTONE, James, Willow Park, Greenock, Esq., for improvements in obtaining motive power.—February 8.

181. JONES, Alexander, King-street, London, engineer, for improvements in the manufacture of copper tubes and vessels.—January 14.

182. JONES, Ezekiel, Stockport, mechanic, for certain improvements in machinery for preparing, slubbing, roving, spinning, and doubling cotton, silk, wool, worsted, flax, and other fibrous substances.—June 12.

183. JONES, John, Smethwick, Birmingham, engineer, for certain improvements in steam-engines, and in the modes or methods of obtaining power from the use of steam.—October 7.

184. JONES, Stopford Thomas, Tavistock-place, Russell-square, Gent., for certain improvements in machinery for propelling vessels by steam or other power.—August 4.

185. JONES, Thomas, Varteg Forge, near Pontypool, Monmouthshire, engineer, for improvements in the construction and arrangement of certain parts of marine and stationary steam-engines.—October 21.

186. JOURNET, Pierre, Dean-street, Soho, engineer, for improvements in fire-escapes; which improvements are applicable to other useful purposes.—May 19.

IRVIN, Peter Hunter. *See* No. 298.

IRVIN, Thomas Eugene. *See* No. 298.

187. IRVING, William, Princes-street, Rotherhithe, Gent., for improvements in the manufacture of bricks and tiles.—December 7.

188. JUCKES, John, Lewisham, Gent., for improvements in furnaces or fireplaces.—September 6.

189. KENDALL, Peter, Gifford's Hall, Suffolk, Esq., for an improved method or methods of con-

necting and disconnecting locomotive engines and railway-carriages.—April 17.

190. KENWORTHY, William, Blackburn, Lancashire, spinner, and James BULLOUGH, of the same place, overlooker, for certain improvements in machinery or apparatus for weaving.—January 14.

191. KETTLE, William Robinson, Waterloo-street, accountant, Benjamin WAKEFIELD, Ryland-street North, civil-engineer, and William CROSHER, Cumberland-street, screw-manufacturer, all of Birmingham, for an improved bolt for building and other purposes.—December 24.

KEUX, John Henry Le. *See* No. 200.

192. KING, Henry, Webber-row, Westminster-road, engineer, for certain improvements in steam-engines and boilers.—November 4.

KING, John. *See* No. 312.

193. KIRK, Henry, Tavistock-square, Gent., for a substitute for ice for skating and sliding purposes.—November 2.

194. KNIGHT, William, Durham-street, Strand, Gent., for an indicator for registering the number of passengers using an omnibus or other passenger-vehicle.—June 28.

195. LACEY, William, Birmingham, agent, for cer-

tain combinations of vitrified and metallic substances applicable to the manufacture of ornaments and the decoration and improvement of articles of domestic utility and of household furniture; also applicable to church-windows and ship-lights.—January 11.

196. LACHENAL, Louis, Titchfield-street, Soho, mechanic, and Antoine VIEYRES, No. 40, Pall Mall, watch-maker, for improvements in machinery for cutting cork.—September 4.

197. LAMING, Richard, Gower-street, Bedford-square, surgeon, for improvements in the production of carbonate of ammonia.—March 15.

LA ROCHE BARRE, Mathias Nicholas. *See* No. 18.

LE CAPELAIN, Philip. *See* No. 256.

198. LEE, John, Newcastle-upon-Tyne, manufacturing chemist, for improvements in the manufacture of chlorine.—August 4.

199. LEJEUNE, Jules, North-place, Cumberland-Market, manufacturing-chemist, for a means of condensing and collecting the sulphurous and metallic vapours which are evolved in the treatment by heat of all kinds of ores.—November 4.

200. LE KEUX, John Henry, Southampton-street, Pentonville, for an improvement in line-engraving, and in producing impressions therefrom.—June 23.

201. LINDSAY, John, Lewisham, Esq., for improvements in covers for water-closets, night-stools, and bed-pans.—March 29.

202. LLOYD, Nathaniel, Manchester, and Henry ROWBOTHAM, of the same place, calico-printer, for certain improvements in thickening and preparing colours for printing calicos and other substances.—January 26.

203. LOACH, John, Birmingham, brass-founder, for certain improvements in castors applicable to cabinet furniture and other purposes.—January 14.

204. LOGAN, Robert, Blackheath, Esq., for improvements in obtaining and preparing the fibres and other products of the cocoa-nut and its husk.—November 2.

205. LOOSEY, Charles, Half-moon-street, Piccadilly, civil-engineer, for improvements in steam-engines, and which improvements are also applicable in raising or forcing water and propelling vessels.—December 16.

206. LOSH, William, Little Benton, Northumberland, Esq., for improvements in the manufacture of railway-wheels.—June 26.

207. LOWE, George, Finsbury-circus, engineer to the Chartered Gas Company, for improved methods of supplying gas under certain circumstances, and of improving its purity and illuminating power.—March 16.

LYON, David. *See* No. 233.

208. MACAULEY, Thomas, Curtain-road, upholsterer, for certain improvements in bed-steps, which are convertible into other useful forms or articles of furniture.—November 2.

209. M'BRIDE, John, manager of the Nursery Spinning Mills, Hutcheson Town, Glasgow, for certain improvements in the machinery and apparatus for dressing and weaving cotton, silk, flax, wool, and other fibrous substances.—July 21.

210. M'EVOY, Henry, Graham-street, Birmingham, hook-and-eye-maker, for improvements in fastenings for bands, straps, and parts of wearing apparel.—April 5.

211. MACLELLAN, James, Glasgow, manufacturer, for an improved combination of materials for umbrella- and parasol-cloth. — January 30.

212. M'NAB, Andrew, Paisley, North Britain, engineer, for certain improvements in the manufacture of bricks.—May 11.

213. M'NAB, Andrew, Paisley, North Britain, engineer, for an improvement or improvements in the making or construction of meters or apparatus for measuring water or other fluids.—July 7.

M'ONIE, Peter. *See* No. 233.

214. MALLET, Robert, Dublin, engineer, for certain improvements in protecting cast and wrought iron, and steel and other metals, from corrosion and oxidation, and in preventing the fouling of iron ships, or ships sheathed with iron, or other ships, or iron buoys, in fresh or sea water.—July 7.

215. MANBY, Edward Oliver, Parliament-street, civil-engineer, and John MANBY, the same place, civil-engineer, for improvements in the construction of puddling, balling, and other sorts of reverberatory furnaces, for the purpose of enabling anthracite, stone-coal, or culm, to be used therein as fuel.—January 30. *See also* No. 288.

MANBY, John. *See* Nos. 215, 288.

216. MANNERING, George, Dover, plumber, and Henry HARRISON, Ashford, plumber, for certain improvements in the means of raising water and other liquids.—September 8.

217. MANWARING, William, York-street, Lambeth, engineer, for certain improvements in the manufacture of sugar.—November 23.

218. MARCH, James Colley, Barnstaple, surgeon, for certain improved means of producing heat from the combustion of certain kinds of fuel. —June 8.

219. MARCHELL, Thomas, Soho-square, surgeon, for

improvements in raising and conveying water and other fluids.—June 28.

MASON, John. *See* No. 119.

220. MASSEY, Edward, King-street, Clerkenwell, watchmaker, for improvements in watches.—October 14.

221. MASSEY, Francis Joseph, Chadwell-street, Myddelton-square, watch-manufacturer, for improvements in the method of winding-up watches and other timekeepers.—May 4.

222. MAUDSLAY, Joseph, Lambeth, Surrey, engineer, for an improvement in the arrangement and combination of certain parts of steam-engines to be used for steam navigation.—March 16.

MAY, Charles. *See* No. 272.

223. MEE, John, Leicester, framesmith, for improvements in the manufacture of looped fabrics.—June 5.

224. MELVILLE, John, Esq., Upper Harley-street, for improvements in propelling vessels.—January 21.

225. MERRY, Anthony Theophilus, Birmingham, refiner of metals, for an improved process or processes for obtaining zinc and lead from their respective ores, and for the calcination of other metallic bodies.—March 22.

226. MERTENS, Antoine, London Coffee-house, publisher, for improvements in the manufacture of plaited fabrics.—December 16.

227. MILLER, Joseph, Monastery Cottage, East India-road, engineer, for an improved arrangement and combination of certain parts of steam-engines used for steam navigation.—September 29.

228. MOLEYNS, Frederick de, Cheltenham, Gent., for certain improvements in the production or development of electricity and the application of electricity for the obtainment of illumination and motion.—August 21.

MOREAU, Felix. *See* Nos. 152, 153.

229. MORLEY, Philemon Augustine, Birmingham, manufacturer, for certain improvements in the manufacture of sugar-moulds, dish-covers, and other articles of similar manufacture.—May 6.

230. MORTIMER, Henry, Frith-street, Soho, Gent., for improvements in covering ways and other surfaces, and in constructing arches.—November 16.

231. NAPIER, David, Milwall, engineer, for improvements in propelling vessels.—March 22.

232. NEALE, John William, William-street, Kennington, engineer, and Jacque Edward DUYCK, Swan-street, Old Kent-road, commis-

sion-agent, for certain improvements in the manufacture of vinegar, and in the apparatus employed therein.—March 8.

233. NEILSON, William, builder, David LYON, builder, and Peter M'ONIE, engineer, Glasgow, for a mode or modes of, or an improvement or improvements in, cutting, dressing, preparing and polishing stones, marble, and other substances, and also in forming flat or rounded mouldings and other figures thereon.—December 16.

234. NEWALL, Robert Stirling, Gateshead, Durham, wire-rope-manufacturer, for improvements in the manufacture of flat bands. — November 16.

235. NEWTON, Edward, Leicester, manufacturer, and Thomas ARCHBOLD, of the same place, machinist, for improvements in producing ornamental or tambour-work in the manufacture of gloves.—May 4.

236. NICKELS, Christopher, York-road, Lambeth, Gent., for improvements in the manufacture of mattresses, cushions, paddings, or stuffings, and in carpets, rugs, or other napped fabrics.—June 28. *See also* No. 22.

237. NOONE, George Edward, Hampstead, engineer, for improvements in dry gas-meters. — February 18.

238. NORMANDY, Alphonse Réné Le Mire de, Red-

cross-square, Cripplegate, doctor of medicine, for certain improvements in the manufacture of soap.—September 8.

239. NORTON, John, Esq., Jun., United Service Club, Regent-street, Esq., for improvements in sheathing ships and other vessels.—December 16.

240. NUTTALL, Joseph Wilson, Belper, draper, and Henry HOLDEN, of the same place, tailor, for improved apparatus to be attached to trowsers, commonly called trowser-straps.—April 5.

241. OGDEN, James, Manchester, cotton-spinner, and Joseph Grundy WOOLLAM, Manchester, commission-agent, for certain improvements in looms for weaving.—April 3.

242. OLDHAM, Elisha, Cricklade, Wilts, railroad-contractor, for certain improvements in the construction of turning-tables to be used on railways.—February 8.

243. OLLIVANT, George Bent, and Adam HOWARD, Manchester, millwrights, for certain improvements in cylindrical printing-machinery, for printing calicos and other fabrics, and in the apparatus connected therewith, which is also applicable to other useful purposes.—June 5.

244. ONIONS, George, High-street, Shoreditch, engineer, for improved wheels and rails for railroad purposes.—July 7.

245. ONIONS, John, Field-lane, Darlaston, Staffordshire, engineer, for improvements in the manufacture of certain descriptions of nails, screws, and chains.—November 11.

246. ORAM, John, Chard, Somerset, machinist, for improved machinery or apparatus for making or manufacturing netted fabrics.—March 31.

247. ORAM, Robert, Salford, Lancaster, engineer, for certain improvements in hydraulic presses.—June 12.

248. ORME, William, Stourbridge, iron-master, for improvements in the manufacture of cofered spades and other cofered tools.—February 18.

249. PALEY, John, Jun., Preston, manufacturer, for certain improvements in looms for weaving.—May 10.

250. PALMER, Edward, Newgate-street, Gent., for improvements in producing printing surfaces, and in the printing of china, potteryware, music, maps, and portraits.—June 12.

251. PALMER, William, Sutton-street, Clerkenwell, manufacturer, for improvements in the manufacture of candles: (being partly a communication.)—November 9.

252. PAPE, Henry, Great Portland-street, pianoforte manufacturer, for improvements in castors.—February 1.

253. PARKES, Alexander, Birmingham, artist, for certain improvements in the production of works of art in metals by electric deposition. —March 29.

254. PATTINSON, Hugh Lee, Bensham-grove, Gateshead, manufacturing chemist, for improvements in the manufacture of white lead, part of which improvements are applicable to the manufacture of magnesia and its salts.—September 24.

255. PAYNE, Charles, South Lambeth, chemist, for improvements in preserving vegetable matters where metallic and earthy solutions are employed.—July 9.

PECK, William Bishop. *See* No. 263.

256. PECKSTON, Thomas, Arundel-street, Strand, Bachelor of Arts, and Philip LE CAPELAIN, of the same place, coppersmith, for certain improvements in meters for measuring gas and other aëriform fluids.—July 15.

257. PELLETAIN, Pierre, St. Paul's Churchyard, professor of medicine, for improvements in propelling fluids and vessels.—September 6.

258. PERKINS, Angier March, Great Coram-street, Middlesex, engineer, for improvements in apparatus for heating by the circulation of hot water, and for the construction of pipes or tubes for such and other purposes.—January 21.

259. PERKINS, Edward Emanuel, Westow-hill, Norwood, Gent., for improvements in the manufacture of soap.—September 21.

260. PETRIE, William, Croydon, Gent., for a new mode of obtaining a motive power by voltaic electricity, applicable to engines and other cases where a motive power is required.—April 27.

261. PETRIE, William, Croydon, Gent., for improvements in obtaining mechanical power; which are also applicable for obtaining rapid motion.—June 19.

262. PHILLIPS, Charles, Chipping Norton, Oxfordshire, engineer, for improvements in reaping and cutting vegetable substances as food for cattle.—May 20.

263. PHILLIPS, Philip William, Clarence-place, Bristol, Gent., and William Bishop PECK, Broad-street, Bristol, wine-merchant, for improvements in four-wheeled carriages.—February 15.

264. PHILLIPS, William Henry, Manchester-street, Manchester-square, civil-engineer, and David HICKINBOTHAM, of the same place, Gent., for certain improvements in the construction of chimneys, flues, and air-tubes, with the stoves and other apparatus connected therewith, for the purpose of preventing the escape of smoke into compartments and for warming and ventilating buildings.—July 13.

265. PHIPPS, George Henry, Deptford, engineer, for improvements in the construction of wheels for railway and other carriages.—July 2.

266. PINKUS, Henry, Maddox-street, St. George's, Hanover-square, for an improved method or methods of applying electrical currents, or electricity either frictional, atmospheric, voltaic, or electro-magnetic.—May 14.

267. POWELL, Lancelot, Clydach Works, Brecon, iron-master, and Robert ELLIS, Clydach aforesaid, agent, for certain improvements in the manufacture of iron.—April 24.

268. PROWETT, William, Northamptonshire, victualler, for improvements in giving signals on railways.—December 16.

269. PRYOR, Joseph, Wendron, Cornwall, builder, for an improved threshing-machine.—January 28.

270. RAND, John, Howland-street, Gent., for certain improvements in preserving paints and other fluids.—March 6.

271. RANKIN, Benjamin, College-street, Islington, Gent., for a new form and combination of and mode of manufacturing blocks for pavement. —April 27.

272. RANSOME, James, and Charles MAY, Ipswich, machine-makers, for improvements in the manufacture of railway-chairs, railway- and

other pins, bolts, and in wood fastenings and trenails.—February 15.

RATHEN, Anthony Bernhard Von, Kingston-upon-Hull, engineer, for certain improvements in fire-grates, and in parts connected therewith, for furnaces for heating fluids.—February 22.

RATHEN, Anthony Bernhard Von, Kingston-upon-Hull, engineer, for improvements in high-pressure and other steam-boilers, combined with a new mode or principle of supplying them with water.—July 28.

RATHEN, Anthony Bernhard Von, Kingston-upon-Hull, engineer, for a new method or methods (called by the inventor "The United Stationary and Locomotive System") of propelling locomotive carriages on railroads and common roads, and vessels on rivers and canals, by the application of a power produced or obtained by means of machinery and apparatus unconnected with the carriages and vessels to be propelled.—July 28.

REYNOLDS, Osborn, Belfast, Ireland, clerk, for improvements in paving streets, roads, and ways.—April 27.

RHAM, William Lewis, Winkfield, Berks, clerk, for certain improvements in machinery or apparatus for preparing land and sowing or depositing grain, seeds, and manure.—May 25.

RICHARDS, William Westley, Birmingham, gun-

maker, for improvements in the construction of gun- and pistol-locks and primers for the discharge of firearms.—December 14.

279. ROBERTS, Martyn John, Brynycaeran, Carmarthen, Gent., and William BROWN, Glasgow, merchant, for improvements in the process of dyeing various matters, whether the raw material of wool, silk, flax, hemp, cotton, or other similar fibrous substances, or the same substances in any stage of manufacture, and in the preparation of pigments or painters' colours.—October 26.

280. ROBINSON, Thomas, Wilmington-square, Esq., for improvements in drying woollen and other fabrics.—January 19.

281. ROBINSON, Thomas, Wilmington-square, Esq., for improvements in drying wool, cotton, and other fibrous materials in the manufactured and unmanufactured state.—April 27.

282. ROSS, Henry, Leicester, worsted-manufacturer, for improvements in combing and drawing wool and certain descriptions of hair.—October 15.

283. ROSS, Jesse, Leicester, manufacturer, for a new wool-combing apparatus.—November 9.

284. ROSTRON, John, Edenfield, Lancaster, manufacturer, and Thomas WELCH, Manchester, manufacturer, for certain improvements in looms for weaving.—April 22.

ROWBOTHAM, Henry.—*See* No. 202.

ROWLEY, Charles. *See* No. 62.

285. RUTHVEN, Morris West, Rotherham, engineer, for a new mode of increasing the power of certain media when acted upon by rotary fans or other similar apparatus.—March 22.

286. RYDER, William, Bolton, roller- and spindle-maker, for certain improved apparatus for forging, drawing, moulding, or forming spindles, rollers, bolts, and various other like articles in metal.—February 8.

RYLES, Aaron. *See* No. 58.

SANDERS, Joseph. *See* No. 334.

287. SCAMP, William, Charlton-terrace, Woolwich, surveyor, for an application of machinery to steam-vessels for the removal of sand, mud, soil, and other matters from the sea, rivers, docks, harbours and other bodies of water.—February 16.

288. SCHAFHAUTL, Charles, Swansea, doctor of medicine, Edward Oliver MANBY, Parliament-street, civil-engineer, and John MANBY, of the same place, civil-engineer, for improvements in the construction of puddling, balling, and other sorts of reverberatory furnaces, for the purpose of enabling anthracite, stone-coal, or culm, to be used therein as fuel.—*January 30.*

289. SCHELESTADT, Edward Loos de, engineer and chemist, and Etienne STERLIGNE, tanner, Regent's-square, in the county of Middlesex, for certain new or improved machinery or apparatus and process for tanning skins or hides, and preparing or operating upon vegetable and other substances.—September 8.

SCHEWIESO, John Charles. *See* No. 363.

SCHONBERG, Charles Louis. *See* No. 28.

290. SCOTT, George, Louth, miller, for certain improvements in flour-mills.—September 23.

291. SCOTT, Joseph, Great Bowden, Market Harborough, timber-merchant, for improvements in constructing railways and in propelling carriages thereon, which improvements are applicable to raising and lowering weights.—February 8.

292. SEAWARD, John, and Samuel SEAWARD, Canal Iron-Works, Poplar, engineers, for certain improvements in steam-engines.—August 13.

SEAWARD, Samuel. *See* No. 292.

293. SHANKS, James, St. Helen's, Lancashire, chemist, for improvements in the manufacture of carbonate of soda.—May 27.

294. SHAW, James Henry, Charlotte-street, Blackfriars, jeweller, for improvements in setting wheat and other seeds.—June 19.

295. SHILLIBEER, George, Melton-street, Euston-square, carriage-builder, for improvements in the construction of hearses, and mourning and other carriages.—September 20.

296. SIDEBOTTOM, James, Waterside, Derby, manufacturer, for certain improvements in machinery or apparatus for preparing cotton and other fibrous substances for spinning.—June 23.

297. SIMMONS, Edward Robert, Croydon, Esq., for improvements in apparatus for preventing splashing in walking.—November 2.

298. SIMPSON, Alexander Horatio, New Palace-yard, Westminster, Gent., Peter Hunter IRVIN, and Thomas Eugene IRVIN, both of Charles-street, Hatton-garden, philosophical-instrument-makers, for an improved mode of producing light and of manufacturing apparatus for the diffusion of light.—June 17.

299. SIMS, James, Redruth, Cornwall, civil-engineer, for certain improvements in steam-engines.—April 29.

300. SLEDDON, Francis, jun., Preston, machine-maker, for certain improvements in machinery or apparatus for roving, slubbing, and spinning cotton and other fibrous substances.—Feb. 2.

301. SMITH, Andrew, Belper, Derbyshire, engineer, for certain improvements in the arrangement and construction of engines to be worked by

the force of steam or other fluids; which improved engines are also applicable to the raising of water and other liquids.—July 21.

302. SMITH, Benjamin, Stoke Prior, near Bromsgrove, Worcestershire, butcher, for an improved apparatus for making salt for brine.—March 8.

303. SMITH, James, Deanstone Works, Perth, cotton-spinner, for certain improvements in the preparing, spinning, and weaving of cotton, silk, wool, and other fibrous substances, and in measuring and folding woven fabrics, and in the machines and instruments for these purposes.—January 19.

304. SMITH, Jesse, Wolverhampton, lock-maker, for improvements in the construction of locks and latches, applicable for doors and other purposes.—November 9.

305. SMITH, Theophilus, Attleborough, Norfolk, farmer, for certain improvements in ploughs.—February 15.

306. SMITH, William Henry, Finsbury Chambers, civil-engineer, for certain improvements in the construction and manufacture of connectors or fastenings, applicable to garments and other uses.—December 21.

307. SNEATH, Charles, Nottingham, lace-manufacturer, for certain improvements in machinery for the making or manufacturing of stockings, or other kinds of loop-work.—February 23.

308. SPENCER, Thomas, Liverpool, carver and gilder, for an improvement or improvements in the manufacture of picture and other frames and cornices; applicable also to other useful and decorative purposes.—March 8.

309. SQUIRE, John, Albany-place, Regent's-park, engineer, for certain improvements in the construction of steam-boilers or generators. —November 16.

310. STARKEY, Thomas, Birmingham, copper-cap-manufacturer, for improvements in percussion-caps for discharging firearms.—December 16.

311. STEPHENSON, Robert, Great George-street, Westminster, civil-engineer, for certain improvements in the arrangement and combination of the parts of steam-engines of the sort commonly called locomotive engines.—June 23.

STERLIGNE, Etienne. *See* No. 289.

312. STEVENS, John Lee, King Edward-street, Southwark, general agent, and John KING, College-hill, London, printer, for certain improvements in candlesticks and other candle-holders.—June 25.

313. STEWART, James, Osnaburg-street, St. Pancras, pianoforte-maker, for certain improvements in the action of horizontal pianofortes.—November 11.

314. STEWART, James, Osnaburg-street, Regent's-

park, pianoforte-maker, for an improvement in the construction of castors.—December 16.

315. STEWARD, John, Wolverhampton, Esq., for certain improvements in the construction of pianofortes.—July 7.

STIRRATT, James. *See* No. 359.

316. STOCKER, Alexander Southwood, and Clement HEELEY, both of Birmingham, manufacturers, for certain improvements in patten- and clogties and other articles or fastenings of dress. —April 27.

STOCKER, George. *See* No. 317.

317. STOCKER, Samuel, Barford-street, Islington, engineer, and George STOCKER, Birmingham, cock-founder, for improvements in machinery, and apparatus for raising, forcing, conveying, and drawing off liquids.—September 28.

318. STOLLMEYER, Conrad Frederick, Goulden-terrace, Barnsbury-road, Islington, merchant, for certain improvements in obtaining and applying motive power by means of winds and waves, for propelling vessels on water, and driving other machinery.—September 17.

319. STRONG, Theodore Frederick, Goswell-road, engineer, for certain improvements in locks and latches.—September 28.

320. STURTEVANT, Richard Lawrence, Church-street, Bethnal-green, soap-manufacturer, for

certain improvements in the manufacture of soap.—March 8.

SUTHILL, William. *See* No. 105.

321. SWINDELLS, John, Manchester, manufacturing-chemist, for certain improvements in the manufacture of artificial stone, cement, stucco, and other similar compositions.—January 6.

322. TALBOT, William Henry Fox, Lacock Abbey, Wilts, Esq., for improvements in obtaining pictures or representations of objects.—Feb. 8.

323. TALBOT, William Henry Fox, Lacock Abbey, Wilts. Esq., for improvements in coating and covering metal with other metals and in colouring metallic surfaces.—December 9.

324. TAUNTON, William George Henry, Liverpool, engineer, for improvements in machinery for raising weights.—December 11.

325. TAYLOR, Josiah, Birmingham, brass-founder, for certain improvements in the construction of lamps.—December 9.

326. TAYLOR, William Hannis, Lambeth, Esq., for certain improvements in propelling machinery. —June 5.

327. TAYLOR, William Wilkinson, Barrowfield House, Westham, Essex, Gent., for improvements in buffing-apparatus for railway purposes.—February 1.

328. TEMPLETON, Archibald, Lancaster, silk-spinner, for a new or improved method of preparing for spinning silk and other fibrous substances. —December 9.

329. THOMPSON, William, Upper North-place, Gray's Inn-road, brush-maker, for improvements in the construction and mounting of various kinds of brushes and brooms.—January 8.

330. THOMSON, Anthony Todd, Hind-street, Manchester-square, doctor of medicine, for an improved method of manufacturing calomel and corrosive sublimate.—March 8.

331. THORBURN, James, Manchester, machinist, for certain improvements in machinery for producing knitted fabrics.—February 8.

332. THORBURN, James, Manchester, machinist, for certain improvements in machinery for producing knitted fabrics.—September 8.

333. THORNTON, William Carr, Cleckheaton, machine-maker, for certain improvements in machinery or apparatus for making card for carding cotton and other fibrous substances.—December 21.

334. TILDESLEY, James, Willenhall, Staffordshire, factor, and Joseph SANDERS, Wolverhampton, lock-manufacturer, for improvements in locks. —March 29.

335. TIZARD, William Littell, Birmingham, brewer,

for certain improvements in apparatus for brewing.—April 5.

336. TODD, Melcher Garner, the island of St. Lucia, for a certain improved form of apparatus for the distilling and rectification of spirits.—January 14.

337. TOPHAM, Ovid, Whitecross-street, engineer, for improvements in engines, machines, apparatus, or means for extinguishing or stopping the progress of fire in any room or part of different buildings which may have become ignited, such as noblemen's or gentlemen's mansions, houses, factories, store- and warehouses, and consequently preserving them from destruction, and preventing the loss of life.—December 21.

338. TOWNSEND, George, Sapcote-fields, Leicester, Esq., for improvements in machinery or apparatus for cutting certain vegetable substances. —April 29.

TUNNICLIFF, John. *See* No. 341.

TURNER, Archibald. *See* No. 22.

339. VARLEY, John, Bayswater-terrace, Bayswater, artist, for an improvement in carriages.—March 8.

340. VAUX, Thomas, Frederick-street, Gray's-Inn-road, worsted-manufacturer, for improvements n horse-shoes.—January 19.

341. VENABLES, John, Burslem, Staffordshire, earthenware-manufacturer, and John TUNNICLIFF, of the same place, bricklayer, for a new and improved method of building and constructing ovens used by potters and china-manufacturers in the firing of their wares.—November 20.

VIEYRES, Antoine. *See* No. 196.

VON RATHEN, Anthony B. *See* Nos. 273, 274, 275.

342. WADDINGTON, Nathan, Hulme, Lancashire, engineer, for certain improvements in the construction of steam-boilers and furnaces for heating the same.—January 26.

WAKEFIELD, Benjamin. *See* No. 191.

343. WALKER, John, Crooked-lane, London, builder, for an improved hydraulic apparatus.—March 8.

344. WALKER, Thomas, North Shields, engineer, for improvements in steam-engines.—June 18.

345. WALKER, William, the elder, Standish-street, Liverpool, watch-finisher, for an improvement or improvements in the manufacture of the detached lever watch.—June 23.

346. WARINGTON, Robert, South Lambeth, Surrey, Gent., for improvements in the operations of fanning.—March 16.

WARNER, Henry. *See* No. 61.

347. WARREN, James, Montague-terrace, Mile-end-road, for an improved machine for making screws.—August 4.

348. WATSON, Henry Hough, Bolton-le-moors, Lancashire, consulting chemist, for certain improvements in dressing, stiffening, and finishing cotton and other fibrous substances, and textile and other fabrics; part or parts of which improvements are applicable to the manufacture of paper, and also to some of the processes or operations connected with printed calicos and other goods.—December 21.

349. WATSON, John, Chorley, Lancashire, Gent., for improvements in the construction of filters used in the manufacture of sugar.—December 23.

350. WAYTE, James Wills, "Morning Advertiser" Office, Fleet-street, engineer, for certain improvements in machinery or apparatus for letter-press printing.—June 12.

WEIGHT, Joseph. *See* No. 162.

351. WELCH, Edward, Liverpool, architect, for certain improvements in the construction of bricks.—September 30.

352. WELCH, John White, Austin Friars, merchant, for an improved reverberatory furnace to be used in the smelting of copper-ore or other

ores which are or may be smelted in reverberatory furnaces.—July 21.

WELCH, Thomas. *See* No. 284.

353. WELLS, Henry Augustus, St. John's Wood, Gent., for certain improvements in the manufacture of woollen cloths.—April 17.

354. WESTLEY, William King, Leeds, flax-machinist, for certain improvements in carding, combing, straightening, cleaning, and preparing for spinning hemp, flax, and other fibrous substances.—January 14.

355. WHEATSTONE, Charles, Conduit-street, Gent., for improvements in producing, regulating, and applying electric currents.—July 7.

356. WHITAKER, Richard, Cambridge, machinist, for improvements in cutting the edges of books and paper, for other purposes, and in impressing ornaments, letters, and figures on the binding of books and on other surfaces.—September 4.

357. WHITE, John, Burton-in-the-Wolds, Leicestershire, farmer, for an improved horse-hoe for use in agricultural pursuits.—September 29.

358. WHITEHOUSE, John, Deptford, engineer, for an improved method of making boilers to be used in marine steam-engines.—May 25.

WHITELAW, George. *See* No. 360.

359. WHITELAW, James, engineer, Glasgow, and James STIRRATT, manufacturer, Paisley, for improvements in rotary machines to be worked by water.—September 23.

360. WHITELAW, James, and George WHITELAW, Glasgow, engineers, for a new mode of propelling vessels through the water, with certain improvements on the steam-engine when used in connection therewith; part of which improvements are applicable to other purposes. —February 15.

361. WHITWORTH, James, Bury, Lancashire, manufacturer, and Hugh BOOTH, of the same place, machine-maker, for certain improvements in looms for weaving.—October 21.

362. WIGSTON, William, Salford, engineer, for a new apparatus for the purpose of conveying signals or telegraphic communications.—February 8.

363. WILKIE, John, Nassau-street, Mary-le-bone, upholsterer, and John Charles SCHEWIESO, George-street, Saint Pancras, musical-instrument-maker, for improvements in constructing elastic seats or surfaces of furniture.—March 2.

WILLIAMS, Joseph. *See* No. 118.

364. Williams, Owen, Basing-lane, London, engineer, for improvements in propelling vessels. —August 4.

365. WINFIELD, Robert Walter, Birmingham, merchant and manufacturer, for certain improvements in or belonging to metallic bedsteads; a portion of which may be applied to other articles of metallic furniture.—March 22.

366. WINTERBORN, John, Clarence-place, Hackney-road, surgeon, for improvements in machinery to facilitate the removal of persons and property from premises in case of fire; which improvements are applicable to raising and lowering weights generally, to assist servants cleaning windows, and as a substitute for scaffolding.—May 22.

367. WILSON, Robert, Sowerby Bridge, Halifax, currier and tanner, for improvements in the manufacture of leather.—December 2.

WOOD, William. *See* Nos. 80 and 81.

368. WOODS, Joseph, Lawn-place, Lambeth, civil-engineer, for certain improvements in locomotive engines, and also certain improvements in machinery for the production of rotatory motion for obtaining mechanical power; which improvements in machinery are also applicable for raising or impelling fluids.—May 22.

WOOLLAM, Joseph Grundy. *See* No. 241.

369. WRIGHT, Joseph, Carisbrook, Isle of Wight, mechanic, for improvements in apparatus used for dragging or skidding wheels of wheeled carriages.—March 22.

370. WRIGHT, Thomas, Church-lane, Chelsea, lieutenant in Her Majesty's navy, for certain improvements applicable to railway and other carriages.—March 22.

371. WRIGHT, Thomas, Church-lane, Chelsea, lieutenant in the royal navy, and Alexander BAIN, Percival-street, Clerkenwell, mechanist, for improvements in applying electricity to control railway-engines and carriages, to mark time, to give signals, and print intelligence at distant places.—December 21.

372. YORK, John Oliver, Upper Coleshill-street, Eaton-square, engineer, for improvements in the construction of railway-axles and wheels. —December 21.

373. YOUNG, James, Newton-le-Willows, Lancashire, chemist, for certain improvements in the manufacture of ammonia and the salts of ammonia, and in apparatus for combining ammonia, carbonic acid, and other gases with liquids.—November 11.

374. YOUNG, Thomas Queen-street, London, merchant, for improvements in furnaces or fireplaces for the better consuming of fuel.—February 3.

375. YOUNG Thomas, Queen-street, London, merchant, for improvements in lamps.—July 9.

402. May 6. For improvements in the manufacture of fabrics by felting.—POOLE, Moses.

403. May 11. For certain improvements in the construction of carriages used on railroads. —TAYLER, Edward.

404. May 22. For certain improvements in the construction of inkstands.—GALL, William.

405. May 22. For improvements in the manufacture of metallic letters, figures, and other devices. —DUMONT, Christopher.

406. May 26. For improvements in propelling vessels.—JOEST, William.

407. June 5. For certain improvements in machinery or apparatus for ruling paper.—BERRY, Miles.

408. June 12. For improvements in machinery or apparatus for knitting.—TIELENS, John Anthony.

409. June 21. For a new or improved engine, machine, or apparatus for producing or obtaining motive power by means of gases or vapours produced by combustion.—BERRY, Miles.

410. June 26. For improvements in machinery for raising, lowering, and moving bodies or weights.—METHLEY, Willoughby, and Thomas Charles.

411. June 26. For improvements in producing and applying heat.—POOLE, Moses.

he titles "Filo-Finisher."—Pierre Armand Le Comte FONTAINE MOREAU.

381. January 19. For improvements in looms for weaving and cutting asunder double (piled) cloths and a machine for winding weft to be used therein.—STEINER, Frederick.

January 19. Caleb BEDELLS, Christopher NICKELS, and Archibald TURNER. *See* No. 22.

382. January 21. For improvements in the construction and application of air-vessels.—FURNIVAL, John Bradford.

383. January 26. For improvements in evaporating fluids, applicable to the manufacture of salt, and to other purposes where evaporation of fluids is required.—FURNIVAL, John Bradford.

384. January 28. For certain improvements in the construction of locomotive engines and of the carriages used on railways; applicable in part to carriages used on common roads.—GALL, William.

385. January 30. For improvements in the forging of bolts, spikes, and nails.—COATES, Ezra Jenks.

February 8. FULLER, Thomas. *See* No. 115.

386. February 15. For improvements in obtaining a concentrated extract of hops, which the inventor denominates "Humuline."—NEWTON, William Edward.

421. August 27. For an improved mode of preserving iron and other metals from oxidation or rust.—MOOREWOOD, Edmund.

422. August 27. For certain improvements in the means and apparatus for obtaining motive power, and rendering more effective the use of known agents of motion.—BERRY, Miles.

423. September 4. For improvements in the manufacture of white lead.—WILDES, George.

September 8. GARNETT, Joseph, and John MASON. *See* No. 119.

424. September 8. For certain improvements in apparatus and metals used in the manufacture of gas for illumination; also improvements in the apparatus for burning the same.—HEBERT, Luke.

425. September 8. For a new or improved method or means of and apparatus for cleansing typographical characters or forms of type after being used in printing.—BERRY, Miles.

426. September 20. For improved machinery for manufacturing felts or felted cloths.—NEWTON, William.

427. September 20. For improvements in machinery for fulling woollen cloth.—HEBERT, Luke.

428. September 20. For an improved buckle.—MAUREL, François Marie Agathe Dez.

429. September 24. For improvements in the construction of presses.—PETIGARS, Jean Louis Alphonse.

October 14. INGRAM, Thos. Wells. *See* No. 178.

430. October 14. For certain improvements in engines to be worked by gas, vapour, or steam. —NEWTON, William.

431. October 14. For improvements in firearms. —POOLE, Moses.

432. October 20. For improvements in machinery for manufacturing cloths of wool and other fibrous substances.—SMITH, Junius.

433. November 2. For improvements in machinery used in the manufacture of bobbin-net, twist, or twisted lace.—POOLE, Moses.

434. November 9. For certain improvements in the production of ammonia.—NEWTON, William Edward.

November 9. PALMER, William. *See* No. 251.

435. December 9. For improvements in the construction of masts for ships and vessels, and in applying the shrouds.—POOLE, Moses.

436. December 9. For improvements in machinery to be used in constructing buildings and in raising and lowering weights and materials. —WILKINSON, Henry.

437. December 14. For certain improvements in printing and delineating patterns on printed cloths for floor-cloths, covers, and other uses. —NEWTON, William Edward.

438. December 16. For certain improvements in the construction of ships or other vessels, and the method of propelling them.—MARX, Francis.

439. December 21. For certain improvements in lamps and burners and in the means of supplying air and heat thereto for the support of combustion.—NEWTON, William Edward.

440. December 21. For certain improvements in cleansing wool and facilitating the operation of dyeing, and also in washing and bleaching cotton yarns or fabrics.—NEWTON, William Edward.

441. December 21. For improvements in axletrees. —BONVEIRON, Henry Alphonse.

APPENDIX.—1841.

No. 1.

COPY
OF
LETTERS PATENT FOR ENGLAND,

As now (1842) *granted by Her Majesty.*

VICTORIA, by the GRACE of GOD, of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith. To all to whom these presents shall come, greeting :—

Whereas, of in the City of , in the County of , hath, by his petition, humbly represented unto us, that he has invented , that he is the first and true inventor thereof, and that the said invention hath never been practised or used by any other person or persons whomsoever, to his knowledge or belief. The petitioner, therefore, most humbly prayed that we would be graciously pleased to grant unto him, his executors, administrators, and assigns, **Our Royal Letters Patent,** for the sole use, benefit, and advantage of his said invention, within England, Wales, and the town of Berwick-upon-Tweed, (A),* for the term of fourteen years, pursuant to the statute in that case made and provided; and we, being willing to give encouragement to all arts and inventions, which may be for the public good, are graciously pleased to condescend to the petitioner's request. **Know ye, therefore,** that we, of our especial grace, certain knowledge, and mere motion, **have** given and granted, and, by these presents, for us, our heirs and successors, **Do** give and grant unto the said , his executors, administrators, and assigns, our especial licence, full power, sole privilege, and authority, that he, the said , his executors, administrators, and assigns, and every of them, by himself and themselves, or by his and their deputy or deputies, servants or agents, or such others as he, the said , his executors, administrators, or assigns, shall, at any time, agree with, and no others, from time to time, and at all times hereafter, during the term of years herein expressed,

* When the English patent includes the Colonies, the following words are inserted here, and wherever the letter (A) is placed in parentheses: "and also in all *our Colonies* and Plantations Abroad".

shall and lawfully may make, use, exercise, and vend his said invention, within that part of our United Kingdom of Great Britain and Ireland called England, our dominion of Wales, and town of Berwick-upon-Tweed (A), in such manner as to him, the said , his executors, administrators, and assigns, or any of them, shall, in his or their discretion, seem meet. And that he, the said , his executors, administrators, and assigns, shall and lawfully may have and enjoy the whole profit, benefit, commodity, and advantage, from time to time coming, growing, accruing, and arising, by reason of the said invention, for and during the term of years herein mentioned. **To have, hold,** exercise, and enjoy the said licence, powers, privileges, and advantages, herein-before granted, or mentioned to be granted, unto the said , his executors, administrators, and assigns, for and during, and unto the full end and term of **fourteen years** from the date of these presents, next, and immediately ensuing, and fully to be complete and ended, according to the statute in such case made and provided; and to the end that he, the said , his executors, administrators, and assigns, and every of them, may have and enjoy the full benefit, and the sole use and exercise of the said invention, according to our gracious intention, herein-before declared, we do by these presents, for us, our heirs, and successors, require and strictly command all and every person and persons, bodies politic and corporate, and all other our subjects whatsoever, of what estate, quality, degree, name, or condition soever they be, within that said part of our United Kingdom of Great Britain and Ireland called England, our dominion of Wales, and town of Berwick-upon-Tweed (A), aforesaid, that neither they nor any of them, at any time during the continuance of the said term of fourteen years hereby granted, either directly or indirectly, do make, use, or put in practice the said invention, or any part of the same so attained unto by the said , as aforesaid, nor in any wise counterfeit, imitate, or resemble the same, nor shall make or cause to be made any addition thereunto, or subtraction from the same, whereby to pretend himself or themselves the inventor or inventors, devisor or devisors thereof, without the licence, consent, or agreement of the said , his executors, administrators, or assigns, in writing, under his or their hands and seals, first had and obtained in that behalf, upon such pains and penalties as can or may be justly inflicted on such offenders for their contempt of this our Royal command; and further to be answerable to the said , his executors, administrators, and assigns, according to law, for his and their damages thereby occasioned. **And, moreover,** we do by these presents, for us, our heirs and successors, will and command all and singular the justices of the peace, mayors, sheriffs,

bailiffs, constables, headboroughs, and all other officers and ministers whatsoever, of us, our heirs, and successors, for the time being, that they, or any of them, do not, nor shall at any time during the said term hereby granted, in any wise molest, trouble, or hinder the said , his executors, administrators, or assigns, or any of them, or his or their deputies, servants, or agents, in or about the due and lawful use or exercise of the aforesaid invention, or anything relating thereto. **Provided always,** and these our Letters Patent are and shall be upon this condition, that if, at any time during the said term hereby granted, it shall be made appear to us, our heirs, or successors, or any six or more of our or their privy council, that this, our grant, is contrary to law, or prejudicial or inconvenient to our subjects in general; or that the said invention is not a new invention, as to the public use and exercise thereof, in that said part of our United Kingdom called England, our dominion of Wales, and town of Berwick-upon-Tweed (A), aforesaid, or* not invented and found out by the said , as aforesaid. Then, upon signification or declaration thereof, to be made by us, our heirs, or successors, under our or their signet, or privy seal, or by the lords, and others, of our or their privy council, or any six or more of them, under their hands, these our Letters Patent shall forthwith cease, determine, and be utterly void, to all intents and purposes, anything hereinbefore contained to the contrary thereof in any wise notwithstanding. **Provided, also,** that these our Letters Patent, or anything herein contained, shall not extend, or be construed to extend, to give privilege unto the said , his executors, administrators, or assigns, or any of them, to use or imitate any invention or work whatsoever, which hath heretofore been found out or invented by any other of our subjects whatsoever, and publicly used or exercised in that said part of our United Kingdom of Great Britain and Ireland called England, our dominion of Wales, or town of Berwick-upon-Tweed (A), aforesaid, unto whom like Letters Patent, or privileges, have been already granted, for the sole use, exercise, and benefit thereof. It being our will and pleasure that the said , his executors, administrators, and assigns, and all and every other person and persons, to whom like Letters Patent or privileges have been already granted, as aforesaid, shall distinctly use and practice their several inventions by them invented and found out, according to the true intent and meaning of the same respective Letters Patent, and of these presents. **Provided likewise, nevertheless,** and these our Letters Patent are upon this express condition, that if at any time hereafter these, our Letters Patent, or the liberties and privileges hereby by us granted, shall become vested in or in trust

* If the patent be granted for the importation of a foreign invention, *then the words "not first introduced,"* are inserted.

for more than the number of twelve persons, or their representatives at any one time, as partners dividing, or entitled to divide, the benefit or profits obtained by reason of these our Letters Patent, (reckoning executors, or administrators, as and for the single person whom they represent, as to such interest as they are or shall be entitled to in right of such their testator or intestate). **And, also,** if the said shall not particularly describe and ascertain the nature of the said invention, and in what manner the same is to be performed, by an instrument in writing under his hand and seal, and cause the same to be enrolled in our High Court of Chancery, within **six calendar months** next and immediately after the date of these our Letters Patent. **And, also,** if the said , his executors, administrators, or assigns, shall not supply, or cause to be supplied, for our service, all such articles of the said invention as he or they shall be required to supply, by the officers or commissioners administering the department of our service, for the use of which the same shall be required, in such manner, at such times, and at and upon such reasonable prices and terms as shall be settled for that purpose by the said officers or commissioners so requiring the same; that then these our Letters Patent, and all liberties and advantages whatsoever hereby granted, shall utterly cease, determine, and become void, any thing hereinbefore contained to the contrary thereof in anywise notwithstanding. **Provided** that nothing herein contained shall prevent the granting of licences, in such manner and for such considerations as they may by law be granted. **And, lastly,** we do, by these presents, for us, our heirs, and successors, grant unto the said , his executors, administrators, and assigns, that these our Letters Patent, or the enrolment or exemplification thereof, shall be in and by all things good, firm, valid, sufficient, and effectual in the law, according to the true intent and meaning thereof, and shall be taken, construed, and adjudged in the most favorable and beneficial sense for the best advantage of the said , his executors, administrators, and assigns, as well in all our Courts of Record, as elsewhere, and by all and singular the officers and ministers whatsoever of us, our heirs and successors, in that part of our said United Kingdom of Great Britain and Ireland called England, our dominion of Wales, and town of Berwick-upon-Tweed (A), aforesaid, and amongst all and every the subjects of us, our heirs, and successors, whatsoever and wheresoever; notwithstanding the not full and certain describing the nature or quality of the said invention, or of the materials thereto conducing and belonging. **In Witness** whereof we have caused these our Letters to be made Patent. Witness Ourself, at our Palace at Westminster, this day of , in the year of our reign.

By writ of Privy Seal,

EDMUNDS.

APPENDIX.—1841.

No. 2.

ABSTRACT OF THE ACT

TO SECURE TO PROPRIETORS OF DESIGNS ON

ARTICLES OF MANUFACTURE

The sole right of making and selling the same.

RECEIVED THE ROYAL ASSENT 10TH OF AUGUST, 1842.

It may be readily conceived that there exists certain classes of property, arising out of the inventive talent of man, to which the law of Patent right is not applicable, and which are equally excluded from the protection of the laws of Copyrights for books. The British legislature appears to have considered one class of subjects of this kind as early as the year 1787, when an act was passed "for the encouragement of the arts of designing and printing linens, cottons, calicoes, and muslins, by vesting the properties thereof in the designers, printers, and proprietors for a limited time;" and in 1798 another class of subjects received legislative protection, in "an act for encouraging the art of making new models and casts of busts." Subsequently, various enactments have been made in relation to these subjects; and in the year 1839, an act was passed "to secure to proprietors of designs for articles of *manufacture* the copyright of such designs for a limited time." This was an important advance, as it recognised improvements in the form or configuration of mechanical instruments and utensils. In the working of this act it was found that certain defects existed, such as the necessity of engraving or stamping a number of words on each article, however small:—for example, on steel nibs for pens, and like articles; it being manifestly impossible

for the proprietors of such-like articles to comply with the requirement of the act. By another clause, an article made of metal received a protection for three years, while an article formed of any other material obtained only one year's exclusive protection, although it was probable the latter might require far higher talent in its contrivance, and a greater outlay of capital to produce it. To obviate these evils, during the late session of parliament (1842) an act was passed "to consolidate and amend the laws relating to the copyright of designs for ornamenting articles of manufacture," of which it is proposed to give an abstract here, together with the regulations made by the Lords of the Treasury in relation to the subject of it:—

The first section of this act repeals the act of 1839 and four others granted for the protection of woven fabrics having new designs printed thereon. It enacts that the present act "shall come into operation on the 1st of September, 1842." The second section relates to the recovery of penalties granted under the several acts then repealed. Section 3 contains the grant of copyright as follows:—

"With regard to any new and original design, whether such design be applicable to the ornamenting of any article of manufacture, or of any substance artificial or natural, or partly artificial and partly natural, and that whether such design be so applicable for the pattern, or for the shape or configuration, or for the ornament thereof, or for any two or more of such purposes, and by whatever means such design may be so applicable, whether by printing or by painting, or by embroidery, or by weaving, or by sewing, or by modelling, or by casting, or by embossing, or by engraving, or by staining, or by any other means whatsoever, manual, mechanical, or chemical, separate or combined, be it enacted, that the proprietor of every such design, not previously published, either within the United Kingdom of Great Britain and Ireland, or elsewhere, shall have the sole right to apply the same to any articles of manufacture, or to any such substances as aforesaid, provided the same be done within the United Kingdom of Great Britain and Ireland, for the respective terms hereinafter mentioned, such respective terms to be computed from the time of such design being registered according to this Act."

It then proceeds to form the various articles mentioned above into 13 Classes, and assigns a term of protection to each Class, as follows:—

1. *Articles of Metal.*—"Articles of manufacture composed wholly or chiefly of any Metal or mixed Metals."—3 years.

2. *Articles of Wood.*—"Articles of manufacture composed wholly or chiefly of Wood."—3 years.

3. *Articles of Glass.*—"Articles of manufacture composed wholly or chiefly of Glass."—3 years.

4. *Articles of Earthenware.*—"Articles of manufacture composed wholly or chiefly of Earthenware."—3 years.

5. *Paper Hangings.*—3 years.

6. *Carpets.*—3 years.

7. *Shawls* (patterns printed.)—"Shawls, if the design be applied solely by printing, or by any other process by which colours are or may hereafter be produced, upon tissue or textile fabrics."—9 calendar months.

8. *Shawls* not comprised in Class 7.—3 years.

9. *Yarn, Thread, or Warp.*—If the design be applied by printing, or "*by any other* process by which colours are or may hereafter be produced." —*9 calendar months.*

10. *Woven Fabrics* (printed.)—"Woven fabrics composed of linen, cotton, wool, silk, or hair, or of any two or more of such materials, if the design be applied by printing, or by any other process by which colours are or may hereafter be produced upon tissue or textile fabrics, except the articles included in Class 11."—9 calendar months.

11. *Woven Fabrics* (furnitures printed.)—"Woven fabrics composed of linen, cotton, wool, silk, or hair, or of any two or more of such materials, if the design be applied by printing, or by any other process by which colours are or may hereafter be produced upon tissue, or textile fabrics, such woven fabrics being, or coming within the description technically called *Furnitures*, and the repeat of the design thereof shall be more than 12 inches by 8 inches."—3 years.

12. *Woven fabrics* not comprised in any preceding Class.—12 calendar months.

13. *Lace*, and any article of manufacture or substance not comprised in any preceding Class.—12 calendar months.

By the fourth section, the following requirements are necessary to entitle persons to receive the benefit of this Act:—

1st. That the design be registered before publication, that is to say, before the article is made or sold publicly.

2nd. That it be stated at the time of registration under which Class or Classes the same is comprised.

3rd. That the name of the proprietor of such design be registered. *Note.*—The Inventor's or Designer's name is not necessary, but the name of the person who has purchased it.

4th. That the mark or number contained in the certificate given by the Registrar be placed upon every article registered, or a label containing such marks be attached to it.

The sixth section allows any proprietor to transfer his rights in a registered design to others.

The 7th section defines the acts which constitute piracy of the copyright of a registered design, as follows:—

"No person shall apply any such design, or any fraudulent imitation thereof, for the purpose of sale, to the ornamenting of any Article of manufacture or any substance, artificial or natural, or partly artificial and partly natural."

"No person shall publish, sell, or expose for sale any Article of manufacture, or any substance to which such design or any fraudulent imitation thereof shall have been so applied after having received, either verbally or in writing, or otherwise, from any source other than the proprietor of such design, knowing that his consent has not been given to such application, or after having been served with or had left at his premises a written notice, signed by such Proprietor or his agent, to the same effect."

The penalties recoverable for any of the above acts of piracy, are from £5 to £30, which may be recovered in the following manner. "*In England*, either by an action of debt, or on the case against the party offending, or by summary proceeding before two justices having jurisdiction where the party offending resides." "*In Scotland*, by action before the Court of Sessions in ordinary form, or by summary action before the sheriff of the county where the offence may be committed, or the offender resides." "*In Ireland*, either by action in a superior court of law at Dublin, or by civil bill in the Civil Bill Court of the county or place where the offence was committed."

By the 17th section, "every person shall be at liberty to inspect any design whereof the copyright shall have *expired*, paying only such fee as shall be appointed by virtue of this Act in that behalf; but with regard to *designs whereof* the copyright shall *not have expired*, no such design *shall be open to inspection*, except by a proprietor of such design, or by

any person authorized by him in writing, or by any person specially authorized by the registrar, and then only in the presence of such registrar, or in the presence of some person holding an appointment under this Act, and not so as to take a copy of any such designs, or of any part thereof."

The remaining sections relate to the appointment of Registrars and clerks, their duties, the certificate and its effect as evidence of originality, proprietorship, &c.

In compliance with the provisions of this act, the Lords Commissioners of the Treasury have directed the following sums to be charged for Registration, which, together with the cost of two copies of a drawing of the articles to be registered, and the agent's fee (one guinea) includes every expense. The drawings may be either furnished by the proprietor, or made at the office, 162, Fleet-street. In cases where the registration is of a printed design, as calico-prints, paper-hangings, and such-like articles, a piece of such article may be sent instead of a drawing.

Registration Fees for Class 1	£3	0	0
——— Class 2, 3, 4, 6, 8, 12, or 13	1	0	0
——— Class 5	0	10	0
——— Class 11	0	5	0
——— Class 9 or 10	0	1	0
Transfer of a Registered Design to another person	1	0	0
Certifying Design, same as the Registration Fee of the class to which the same belongs, except in class 1, when the charge is	1	0	0

List of the Names of a few Articles that have been already protected by Registration for improvements thereon:—

Basin, battledore, brush, book writing desk, cantoon, carpet, envelope, gambroon, inlaid cap for carriage wheels, instrument for smoothing the exterior surface of drain tiles, Indian rubber, jug, lamp-chimney, label, pressure-guage, sofa, stained paper, shirt (double-breasted), sauce-boat (earthenware or china), tureen, table cover, under-side frame for railway carriages, vegetable dish, blind roller, bottom of kettles, pots, &c., block for hat linings, basting machine, button, bedstead, boot and shoe fastener, coffin furniture, centrifugal iron railway, coin balance and pencil and pen case, candle wedge, currycomb, coffee mill, chandelier, compound disc of circular plates, chimney cap, chimney cowl, catch for rope grip, concave gas reflector, carriage spring, cattle tube, detent for window blinds, &c., dust bin and sifter, dish cover, drill harrow, design for cutting tobacco, &c., economic laboratory, fender, flue door, fire hearth, fire basket with boiler, fishing reel, hook and eye, harrow, hat, coat and umbrella stand, iron lever or jack for looms, inkstand, instrument for crushing and mashing, joint for shortening the handle of parasol, knife, lamp burners, light extinguisher,

leeching and cupping instrument, letter and money balance, lithographic press, letter clip, lamp, music folio, metallic handle, machine for sweeping, metal jug, metal tripod, metal sustainers for supports for wax lights, metallic plate, metal balance, micrometer balance, money balance, nail, oblong coal urn, pencil case, portable letter and coin balance, pocket comb sliding in case without cap, pocket comb sliding in case with cap, pen, projecting letters, portable shower bath, protector to workmen employed on railways, pier table, piston for water-closet, Prince's cover, rake, rope, revolving grip for railway carriages, syringe, snuffers, skate, stove front, sextant limb, stove, skeleton conductor for lamps, shovel, screw clamp and plate for stereotype mould, scale and balance, unique pocket companion pencil case, umbrella stand, water valve, wheel, way pin for ploughs, window blind, Waterford spittoon.

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